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6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:05		
7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:05		
8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:06		
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10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:06		
11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:08		
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15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:11		
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Relevance scale **1 Data traffic in a new centralized switch node architecture for LAN**

Ehab A. Khalil, M. Khalid, H. B. Kekre

◆ January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A new switch-node architecture for data traffic for integrated services in a Local Area Network (LAN) is proposed. Specifically it has been designed to provide service to the following two broad types of traffic:1. Connectionless service for Interactive Data (ID) traffic.2. Connection-oriented service for Non-Interactive Data (NID) traffic. The topology of the switch-node is a bus. The key feature of the proposed scheme is the **centralization**, which has been exploited to provide the requisi ...

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Christopher D. Hunter

April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**

Publisher: ACM Press

Full text available:  pdf(102.93 KB) Additional Information: [full citation](#), [references](#), [index terms](#)2 [Innovative technologies of e-commerce: An interconnection architecture for](#) [micropayment systems](#)

R. Párhonyi, D. Quartel, A. Pras, L. J. M. Nieuwenhuis

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available:  pdf(379.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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3 [Concepts and capabilities of a database computer](#) Jayanta Banerjee, David K. Hsiao, Richard I. BaumDecember 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Keywords: clustering, content-addressable memory, database computers, keywords, mass memory, performance, security, structure memory

4 Using SoDIS™ as a risk analysis process: a teaching perspective 

Don Gotterbarn, Tony Clear

January 2004 **Proceedings of the sixth conference on Australian computing education - Volume 30 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(617.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

There are several difficulties we face when showing our students key processes and techniques for software development. In this paper, issues related to teaching students how to manage risks in software projects are profiled. The concepts and process for implementing Software Development Impact Statements (SoDIS) are outlined; with its supporting CASE tool the "SoDIS Project Auditor" being described. Different ways of applying the SoDIS process and the CASE tool are demonstrated, through some br ...

5 From UML to LQN by XML algebra-based model transformations 

Gordon P. Gu, Dorina C. Petriu

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available:  pdf(231.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: LQN, UML, XMI, XML, automatic model building, model transformations, performance profile, software performance engineering

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Louise H. Jones, Kenneth Carvin, Janet Hauser, Paul Herrmann, Frank Pehrson, Harold Reksten, Patricia Van Name

September 1972 **Conference record of the 5th annual workshop on Microprogramming**

Publisher: ACM Press

Full text available:  pdf(873.04 KB) Additional Information: [full citation](#), [references](#)

7 Contemporary Concepts of Microprogramming and Emulation 

Robert F. Rosin

December 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Maintenance and evolution: Automating the performance management of component-based enterprise systems through the use of redundancy 

Ada Diaconescu, John Murphy

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available: [pdf\(941.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Hal Berghel, David Roach

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Publisher: ACM Press

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Raymond Kanner

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11 Industry/government track papers: Learning to detect malicious executables in the wild 

Jeremy Z. Kolter, Marcus A. Maloof

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on**

Knowledge discovery and data mining KDD '04**Publisher:** ACM PressFull text available:  pdf(216.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: concept learning, data mining, malicious software, security

12 A novel method for protein subcellular localization based on boosting and probabilistic neural network 

Jian Guo, Yuanlie Lin, Zhirong Sun

January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04****Publisher:** Australian Computer Society, Inc.Full text available:  pdf(106.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Subcellular localization is a key functional characteristic of proteins. An automatic, reliable and efficient prediction system for protein subcellular localization is needed for large-scale genome analysis. In this paper, we introduce a novel subcellular prediction method combining boosting algorithm with probabilistic neural network algorithm. This new approach provided superior prediction performance compared with existing methods. The total prediction accuracy on Reinhardt and Hubbard's data ...

Keywords: amino acid composition, boosting, probabilistic neural network, subcellular localization

13 Embedded systems: applications, solutions and techniques (EMBS): Assessing the effect of failure severity, coincident failures and usage-profiles on the reliability of embedded control systems 

Frederick T. Sheldon, Kshamta Jerath

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing****Publisher:** ACM PressFull text available:  pdf(327.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The increasingly ubiquitous use of embedded systems to manage and control our technologically (ever-increasing) complex lives makes us more vulnerable than ever before. Knowing how reliable such systems are is absolutely necessary especially for safety, mission and infrastructure critical applications. This paper presents a structured compositional modeling method for assessing reliability based on characteristic data and stochastic models. We illustrate this using a classic embedded control sys ...

Keywords: design, measurement, performance, reliability

14 Towards an engineering approach to software design 

John R. White, Taylor L. Booth

October 1976 **Proceedings of the 2nd international conference on Software engineering****Publisher:** IEEE Computer Society Press

Full text available:  pdf(995.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The software design process is discussed from an engineering point of view. Initially, a distinction is made between software design and program design. Software design is then described in terms of evolving a system architecture independently of implementation considerations. Computation structures are introduced as a means of modeling the dynamic behavior of a software architecture. Functional completeness, quality, machine independence, and performance completeness of a design are then u ...

Keywords: Computation structures, Data abstraction, Performance modeling, Software design, Software engineering

15 Display oriented computer usage system 

Harold S. Corbin, Werner L. Frank

January 1966 **Proceedings of the 1966 21st national conference**

Publisher: ACM Press

Full text available:  pdf(648.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The history of data processing has shown the development of general purpose packages in support of data processing hardware. Thus, we have seen the evolution of assemblers, compilers, service routines, and I/O routines. These software packages have led us to operating systems, job monitors, and data manipulation packages in support of batch processing operations. The advent of user-oriented terminal devices and conversation modes of on-line operation, be it time sharing or direct ...

16 A display console for an experimental computer-based augmented library catalog 

Donald R Haring

January 1968 **Proceedings of the 1968 23rd ACM national conference**

Publisher: ACM Press

Full text available:  pdf(884.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Project Intrex (information transfer experiments) is a program of research and experimentation directed toward the functional design of new library services that might become operational at the Massachusetts Institute of Technology and elsewhere in the decade beginning in 1970.1,2 At M.I.T., as with many other institutions having extensive library services and a large research community, it has become increasingly evident that such new library services will be based on ...

17 Wargame-based training systems 

L. Robert Ogus, James R. Jancaitis, Russel E. Hauck

December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**

Publisher: IEEE Press

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a candidate model for development of wargame-based training systems and describes the application of that concept during development of the Naval Tactical Game (NAVTAG) Training System. A wargame-based training system combines the inherent educational advantages of simulation and gaming with the best features of more formal or conventional methods of instruction. Research indicates that gaming simulation has the potential to afford significant advantages over convention ...

18 Some realities of data administration 

Beverly K. Kahn

October 1983 **Communications of the ACM, Volume 26 Issue 10**

Publisher: ACM Press

Full text available: [pdf\(625.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Little information exists on the practice of data administration, i.e., the management of data as an enterprise resource. A survey of data administrators at predominantly large enterprises was conducted to determine the extent of the existence of data administration and to assess its effectiveness as implemented. New insight into the realities of data administration, including its real-world objectives and perceived effectiveness, is presented.

Keywords: data administration, data administration function effectiveness, database administration, information resource management

19 Standardization for ATM and related B-ISDN technologies 

◆ David Cypher, Shukri Wakid
September 1993 **StandardView**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(876.56 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

20 Algorithm 804: subroutines for the computation of Mathieu functions of integer orders 

◆ Fayez A. Alhargan
September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: [pdf\(87.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer subroutines in C++ for computing Mathieu functions of integer orders are described. The routines can handle a large range of the order n and the parameter h. Sample test results and graphs are given.

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numbers, Mathieu coefficients, Mathieu differential equation, Mathieu functions, elliptic coordinates, wave equation

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1 Innovative technologies of e-commerce: An interconnection architecture for micropayment systems

R. Párhonyi, D. Quartel, A. Pras, L. J. M. Nieuwenhuis
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM PressFull text available: pdf(379.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: clustering, content-addressable memory, database computers, keywords, mass memory, performance, security, structure memory

3 Cut and paste based text summarization

Hongyan Jing, Kathleen R. McKeown

April 2000 **Proceedings of the first conference on North American chapter of the Association for Computational Linguistics**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  pdf(764.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present a cut and paste based text summarizer, which uses operations derived from an analysis of human written abstracts. The summarizer edits extracted sentences, using reduction to remove inessential phrases and combination to merge resulting phrases together as coherent sentences. Our work includes a statistically based sentence decomposition program that identifies where the phrases of a summary originate in the original document, producing an aligned corpus of summaries and articles whic ...

4 Sentence reduction for automatic text summarization

Hongyan Jing

April 2000 **Proceedings of the sixth conference on Applied natural language processing**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  pdf(598.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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We present a novel sentence reduction system for automatically removing extraneous phrases from sentences that are extracted from a document for summarization purpose. The system uses multiple sources of knowledge to decide which phrases in an extracted sentence can be removed, including syntactic knowledge, context information, and statistics computed from a corpus which consists of examples written by human professionals. Reduction can significantly improve the conciseness of automatic summar ...

5 From UML to LQN by XML algebra-based model transformations

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◆ December 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**8 Maintenance and evolution: Automating the performance management of component-based enterprise systems through the use of redundancy**

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Publisher: ACM Press

Full text available:  pdf(327.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The increasingly ubiquitous use of embedded systems to manage and control our technologically (ever-increasing) complex lives makes us more vulnerable than ever before. Knowing how reliable such systems are is absolutely necessary especially for safety, mission and infrastructure critical applications. This paper presents a structured compositional modeling method for assessing reliability based on characteristic data and stochastic models. We illustrate this using a classic embedded control sys ...

Keywords: design, measurement, performance, reliability

14 Towards an engineering approach to software design John R. White, Taylor L. Booth**October 1976 Proceedings of the 2nd international conference on Software engineering****Publisher:** IEEE Computer Society PressFull text available:  pdf(995.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The software design process is discussed from an engineering point of view. Initially, a distinction is made between software design and program design. Software design is then described in terms of evolving a system architecture independently of implementation considerations. Computation structures are introduced as a means of modeling the dynamic behavior of a software architecture. Functional completeness, quality, machine independence, and performance completeness of a design are then u ...

Keywords: Computation structures, Data abstraction, Performance modeling, Software design, Software engineering

15 Display oriented computer usage system Harold S. Corbin, Werner L. Frank**January 1966 Proceedings of the 1966 21st national conference****Publisher:** ACM PressFull text available:  pdf(648.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The history of data processing has shown the development of general purpose packages in support of data processing hardware. Thus, we have seen the evolution of assemblers, compilers, service routines, and I/O routines. These software packages have led us to operating systems, job monitors, and data manipulation packages in support of batch processing operations. The advent of user-oriented terminal devices and conversation modes of on-line operation, be it time sharing or direct ...

16 A display console for an experimental computer-based augmented library catalog Donald R Haring**January 1968 Proceedings of the 1968 23rd ACM national conference****Publisher:** ACM PressFull text available:  pdf(884.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Project Intrex (information transfer experiments) is a program of research and experimentation directed toward the functional design of new library services that might become operational at the Massachusetts Institute of Technology and elsewhere in the decade beginning in 1970.1,2 At M.I.T., as with many other institutions having extensive library services and a large research community, it has become increasingly evident that such new library services will be based on ...

17 Wargame-based training systems

L. Robert Ogas, James R. Jancaitis, Russel E. Hauck

December 1981 Proceedings of the 13th conference on Winter simulation - Volume 2**Publisher:** IEEE PressFull text available:  pdf(1.09 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a candidate model for development of wargame-based training systems and describes the application of that concept during development of the Naval Tactical Game (NAVTAG) Training System. A wargame-based training system combines the inherent educational advantages of simulation and gaming with the best features of more formal or conventional methods of instruction. Research indicates that gaming simulation has the potential to afford significant advantages over convention ...

18 Some realities of data administration

◆ Beverly K. Kahn

◆ October 1983 **Communications of the ACM**, Volume 26 Issue 10

Publisher: ACM Press

Full text available: pdf(625.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Little information exists on the practice of data administration, i.e., the management of data as an enterprise resource. A survey of data administrators at predominantly large enterprises was conducted to determine the extent of the existence of data administration and to assess its effectiveness as implemented. New insight into the realities of data administration, including its real-world objectives and perceived effectiveness, is presented.

Keywords: data administration, data administration function effectiveness, database administration, information resource management

19 Standardization for ATM and related B-ISDN technologies

◆ David Cypher, Shukri Wakid

◆ September 1993 **StandardView**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(876.56 KB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)**20 Algorithm 804: subroutines for the computation of Mathieu functions of integer orders**

◆ Fayez A. Alhargan

◆ September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(87.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer subroutines in C++ for computing Mathieu functions of integer orders are described. The routines can handle a large range of the order n and the parameter h. Sample test results and graphs are given.

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numbers, Mathieu coefficients, Mathieu differential equation, Mathieu functions, elliptic coordinates, wave equation

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